



From the INTERNATIONAL SEARCHING AUTHORITY

67 OCT 2004

JOHN W. CALDWELL WOODCOCK WASHBURN LLP	:					
ONE LIBERTY PLACE - 46TH FLOOR PHILADELPHIA, PA 19103	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION					
	(PCT Rule 44.1)					
	Date of Mailing (day/month/year) 10 SEP 2004					
Applicant's or agent's file reference ISIS-5192	FOR FURTHER ACTION See paragraphs 1 and 4 below					
International application No. PCT/US03/10840	International filing date (day/month/year) 09 April 2003 (09.04.2003)					
Applicant ISIS PHARMACEUTICALS, INC.						
1. The applicant is hereby notified that the international search report has been established and is transmitted herewith. Filing of amendments and statement under Article 19:						
The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.						
Where? Directly to the International Bureau of WIP	Where? Directly to the International Bureau of WIPO, 34, chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35					
For more detailed instructions, see the notes on the	accompanying sheet.					
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.						
3. With regard to the protest against payment of (an) add	itional fee(s) under Rule 40.2, the applicant is notified that:					
the protest together with the decision thereon has b	een transmitted to the International Bureau together with the protest and the decision thereon to the designated Offices.					
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.						
4. Reminders						
Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for international publication.						
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.						
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.						
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.						
The state of the TCA ITIC	Abthorized officer					
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Afithorized officer Saukence for Tracy Vivlemore					
P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. 571-272-1600						

Facsimile No. (703) 305-3230 Form PCT/ISA/220 (April 2002)

(See notes on accompanying sheet)



PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference ISIS-5192	cant's or agent's file reference FOR FURTHER Percet (For		orm PCT/ISA/220) as well as, where applicable,				
International application No. PCT/US03/10840	International filing date (day/month/year)		(Earliest) Priority Date (day/month/year) 09 April 2002 (09.04.2002)				
Applicant ISIS PHARMACEUTICALS, INC.							
according to Article 18. A copy is being	g transmitted to the international	earching A Bureau.	uthority and is transmitted to the applicant				
This international search report consists It is also accompanies	of a total of sheets. d by a copy of each prior art docu	ment cited	in this report.				
language in which it was filed	, unless otherwise indicated under	this item.	basis of the international application in the				
Australia (Bula 22 1(b))	e and/or amino acid sequence disc		e international application furnished to this e international application, the international				
contained in the internation	al application in written form.						
filed together with the inter	filed together with the international application in computer readable form.						
furnished subsequently to the	furnished subsequently to this Authority in written form.						
	furnished subsequently to this Authority in computer readable form.						
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.							
the statement that the information been furnished.	mation recorded in computer readal	ble form is	identical to the written sequence listing has				
2. Certain claims were found	d unsearchable (See Box I).						
3. Unity of invention is lacki	ng (See Box II).						
4. With regard to the title,	to the decimality						
the text is approved as subr							
the text has been establishe	d by this Authority to read as follo	ws:					
5. With regard to the abstract,							
the text is approved as sub-	mitted by the applicant.						
the text has been establishe within one month from the	d, according to Rule 38.2(b), by the date of mailing of this international	is Authorit d search re	y as it appears in Box III. The applicant may, port, submit comments to this Authority.				
6. The figure of the drawings to be pu	iblished with the abstract is Figure	No					
as suggested by the applica			None of the figures				
because the applicant failed	i to suggest a figure.						
because this figure better c	haracterizes the invention.						

Form PCT/ISA/210 (first sheet) (July 1998)



INTERNATIONAL SEARCH REPORT

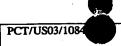
International application No.

PCT/US03/10840

A. CLAS	SIFICATION OF SUBJECT MATTER					
IPC(7)	: A61K 48/00; C07H 21/04					
US CL	: 514/44; 536/23.1 International Patent Classification (IPC) or to both nat	onal classification and IP	С	·		
B. FIELI	DS SEARCHED					
	cumentation searched (classification system followed b	classification symbols)				
Winimum doc U.S.: 51	cumentation searched (classification system followed b)	·				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet						
C. DOC	UMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where a	propriate, of the relevant	passages	Relevant to claim No.		
X Y	TSURUOKA et al. Synthesis and Conformational P Incorporating 2'-O-Phosphorylated Ribonucleotides Splicing Intermediates. Journal of Organic Chemistr 7479-7494, see entire document.	1, 8-10, 12-14, 16, 17, 19-24, 31-33, 35-37, 39 and 40 				
<u>х</u> -	LORSCH et al. Reverse transcriptase reads through in a template. Nucleic Acids Research. 1995, Vol. 2 document.	and 38 1, 8-10, 12-14, 16-24, 31-33, 35-37, 39-41 2, 3, 15, 25, 26, 34 and 38				
Further	documents are listed in the continuation of Box C.	See patent fam	ily annex.			
* S "A" document of particu	pecial categories of cited documents: I defining the general state of the art which is not considered to be alar relevance plication or patent published on or after the international filing date	date and not in co principle or theory "X" document of parti- considered novel	inflict with the applic y underlying the inve- cular relevance: the	ernational filing date or priority action but cited to understand the ention claimed invention cannot be red to involve an inventive step		
establish specified)	t which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as) t referring to an oral disclosure, use, exhibition or other means	"Y" document of particonsidered to invocembined with on	cular relevance; the	claimed invention cannot be p when the document is n documents, such combination te art		
1	t published prior to the international filing date but later than the	"&" document membe	r of the same patent	family		
priority d	late claimed	Date of mailing of the in	nternational sear	ch reports 2004		
į.	ctual completion of the international search		1	O SEP COUR		
Date of the actual completion of the international search 21 July 2004 (21.07.2004) Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Tracy Vivlemore Date of mailing of the international search report Afthorized officer Tracy Vivlemore Authorized Stuffence Tracy Vivlemore						
Ma Cor	il Stop PCT, Attn: ISA/US mmissioner for Patents D. Roy 1450	Tracy Vivlemore Telephone No. 571-272		ace for		
Facsimile No	exandria, Virginia 22313-1450 o. (703) 305-3230					

Form PCT/ISA/210 (second sheet) (July 1998)





Continuation o	fB.	FIELDS	SEARCHED	Item 3:
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STN

search terms: 2'-phosphorothioate, 2'-thiophosphate, phosphorylated ribonucleosides

Form PCT/ISA/210 (second sheet) (July 1998)